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OIPE JC181 APR 27 2001 PATENT & TRADEMARK OFFICE

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Dutta et al.**

Serial No.: **09/732,481**

Filing Date: **12/07/2000**

For: **Method and system for exchange of node characteristics for data sharing in peer-to-peer networks**

§ Group Art Unit: **2151**
§
§ Examiner: **Unknown**
§
§ Attorney Docket No.: **AUS920000822US1**
§

Certificate of Mailing
Under 37 C.F.R. § 1.8(a)

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on April 24, 2001.

By: Joseph R. Burwell
Joseph R. Burwell, Reg. No 44,468

LETTER TO OFFICIAL DRAFTSPERSON

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Submitted herewith are formal drawings (6 sheets) for the above-identified application.

DATE: April 24, 2001

Respectfully submitted,

Joseph R. Burwell
Reg. No. 44,468
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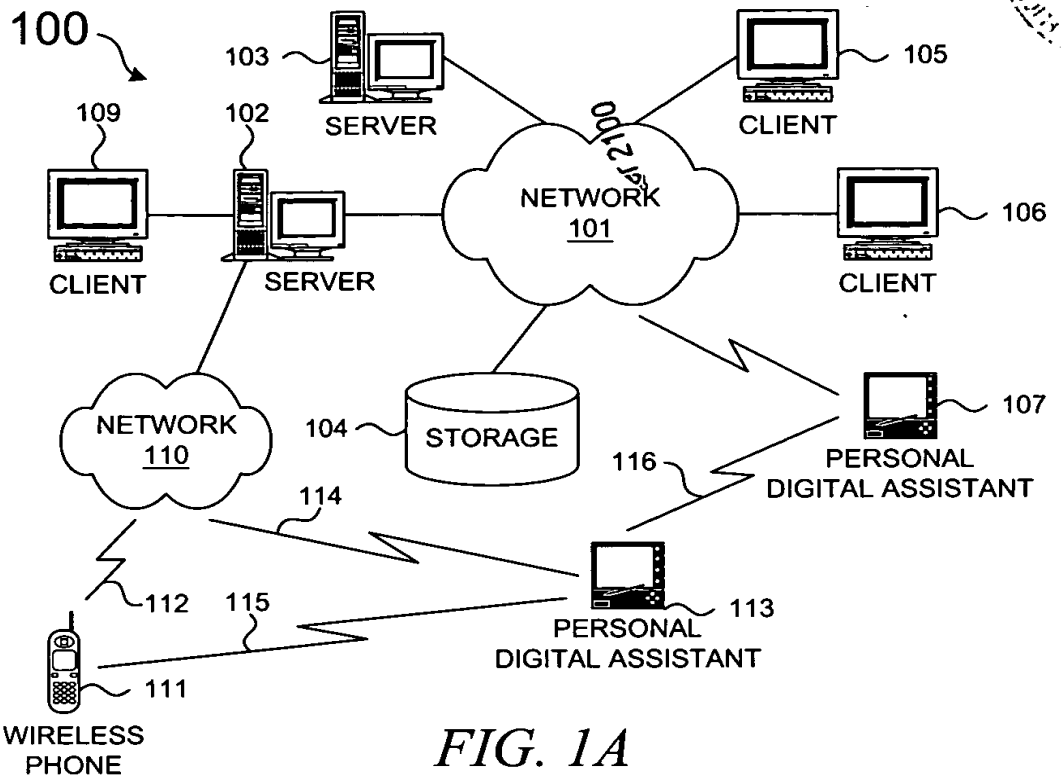

FIG. 1A
(PRIOR ART)

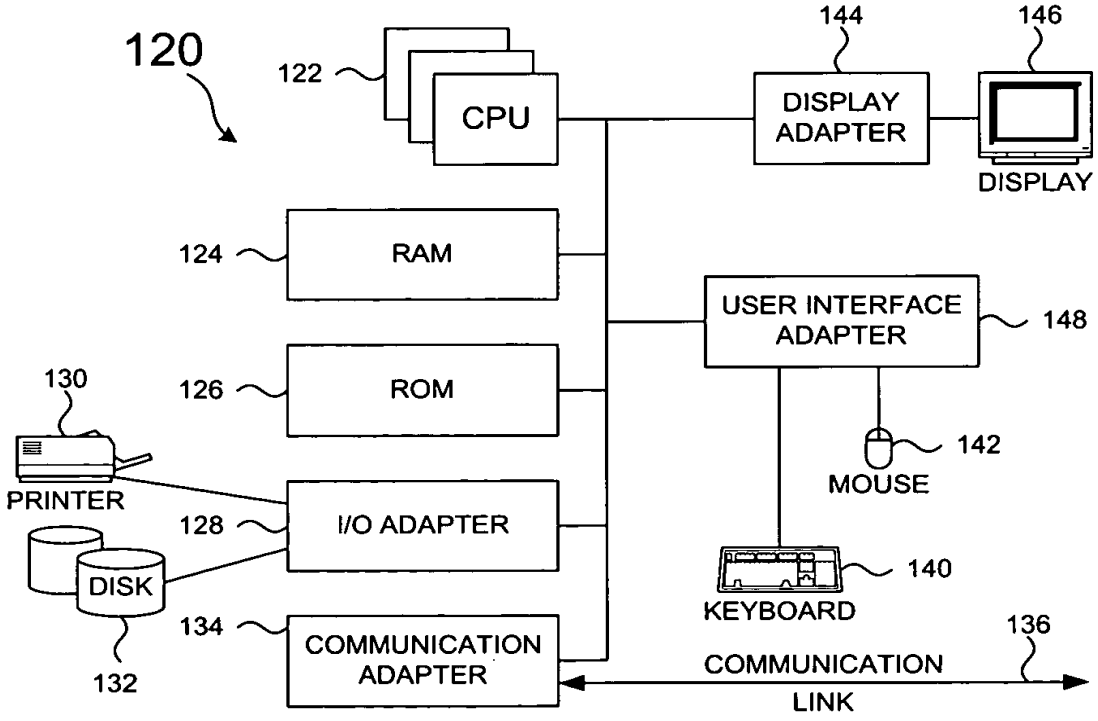

FIG. 1B
(PRIOR ART)

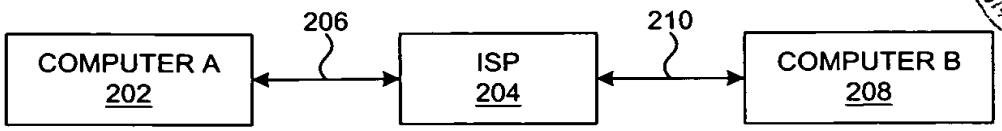

FIG. 2A
(PRIOR ART)

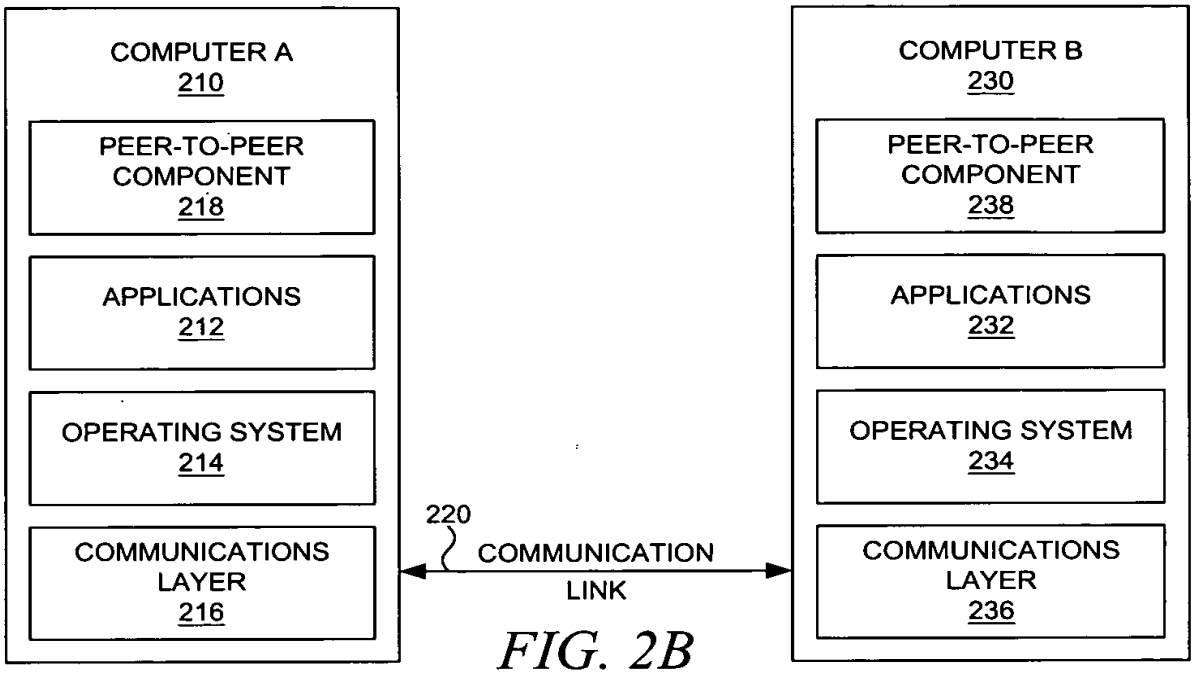

FIG. 2B
(PRIOR ART)

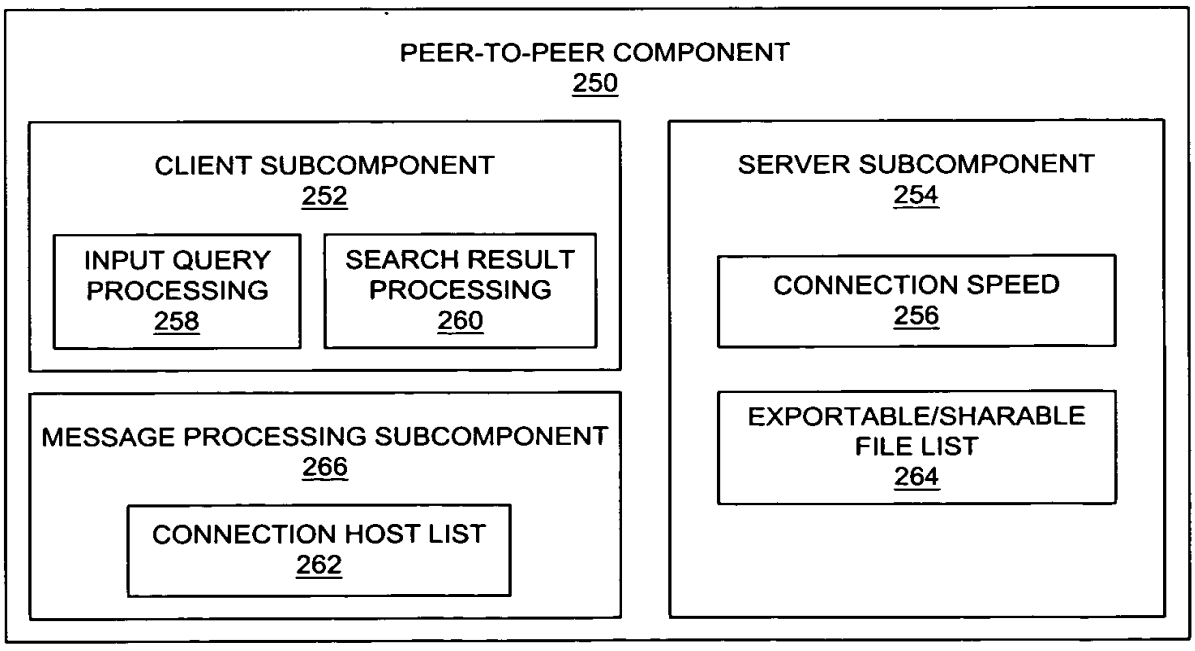

FIG. 2C
(PRIOR ART)

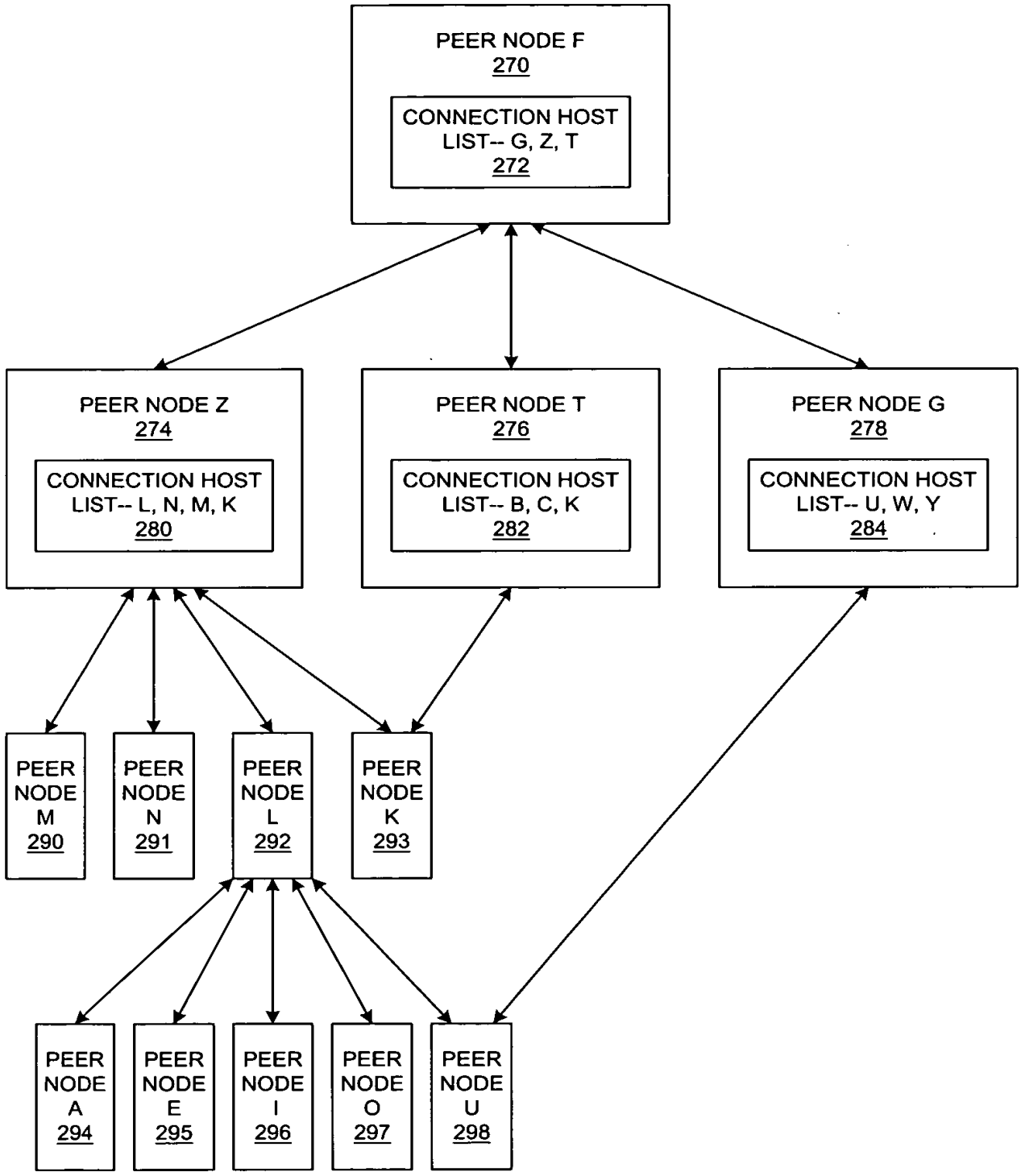

FIG. 2D
(PRIOR ART)

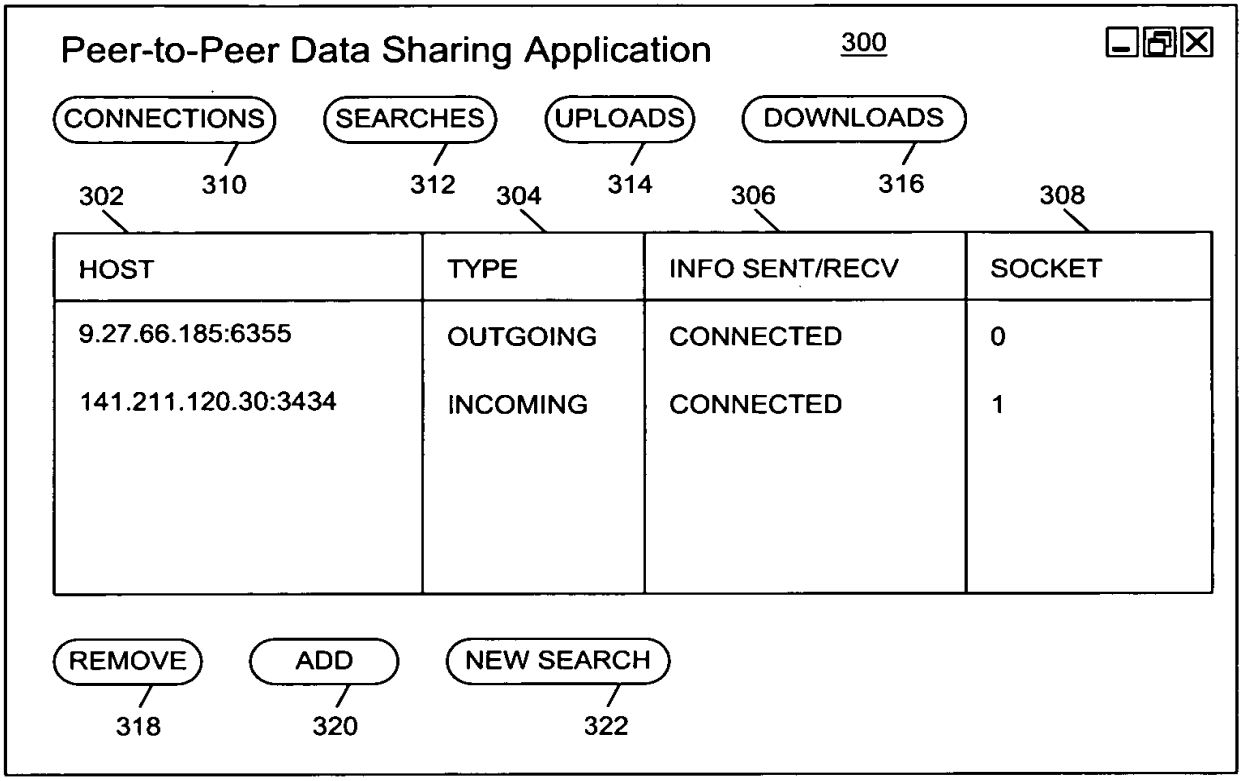

FIG. 3
(PRIOR ART)

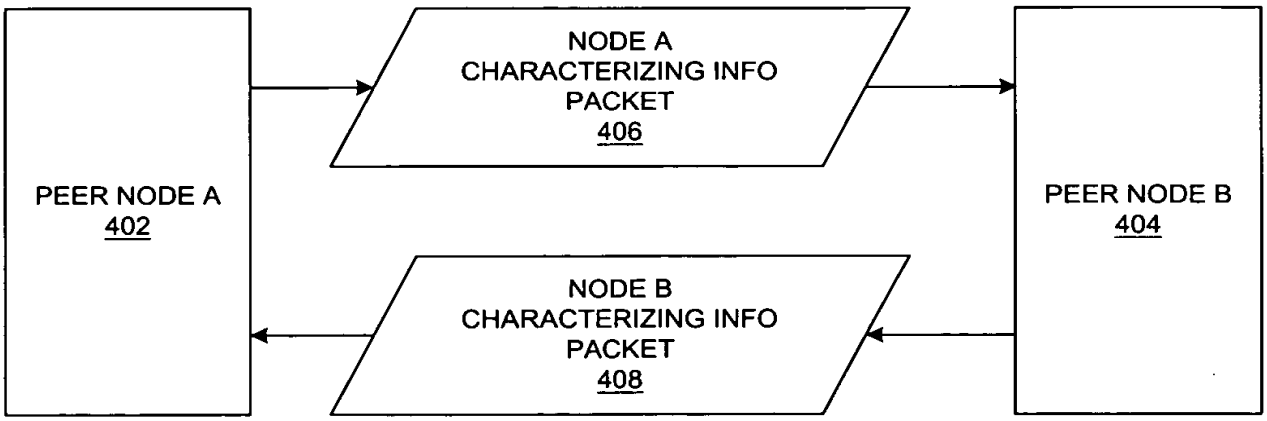

FIG. 4

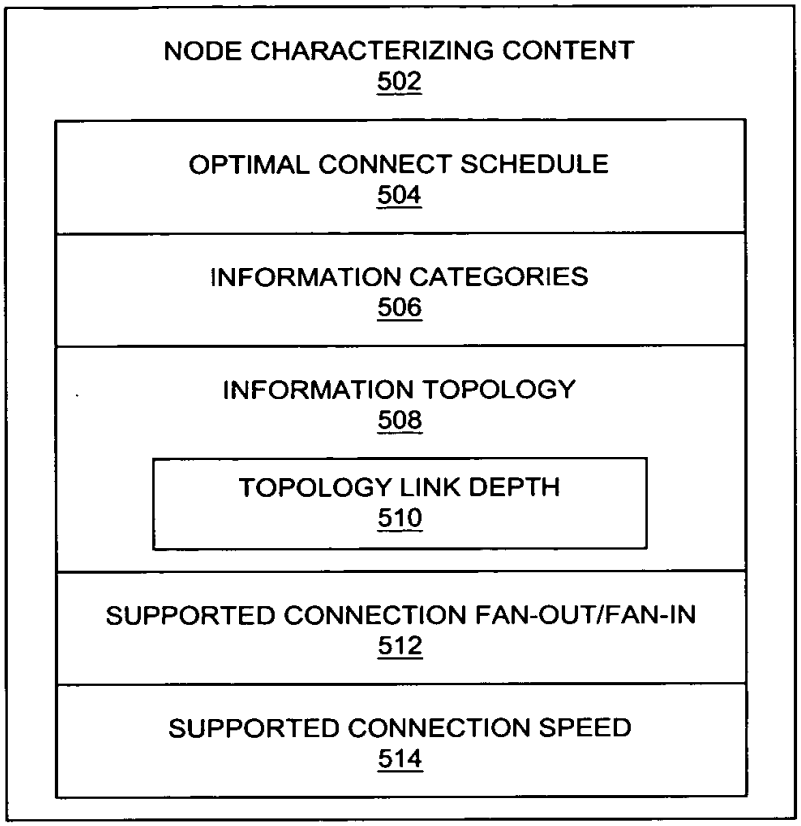
NODE CHARACTERIZING CONTENT
502
OPTIMAL CONNECT SCHEDULE
504
INFORMATION CATEGORIES
506
INFORMATION TOPOLOGY
508
TOPOLOGY LINK DEPTH
510
SUPPORTED CONNECTION FAN-OUT/FAN-IN
512
SUPPORTED CONNECTION SPEED
514

FIG. 5

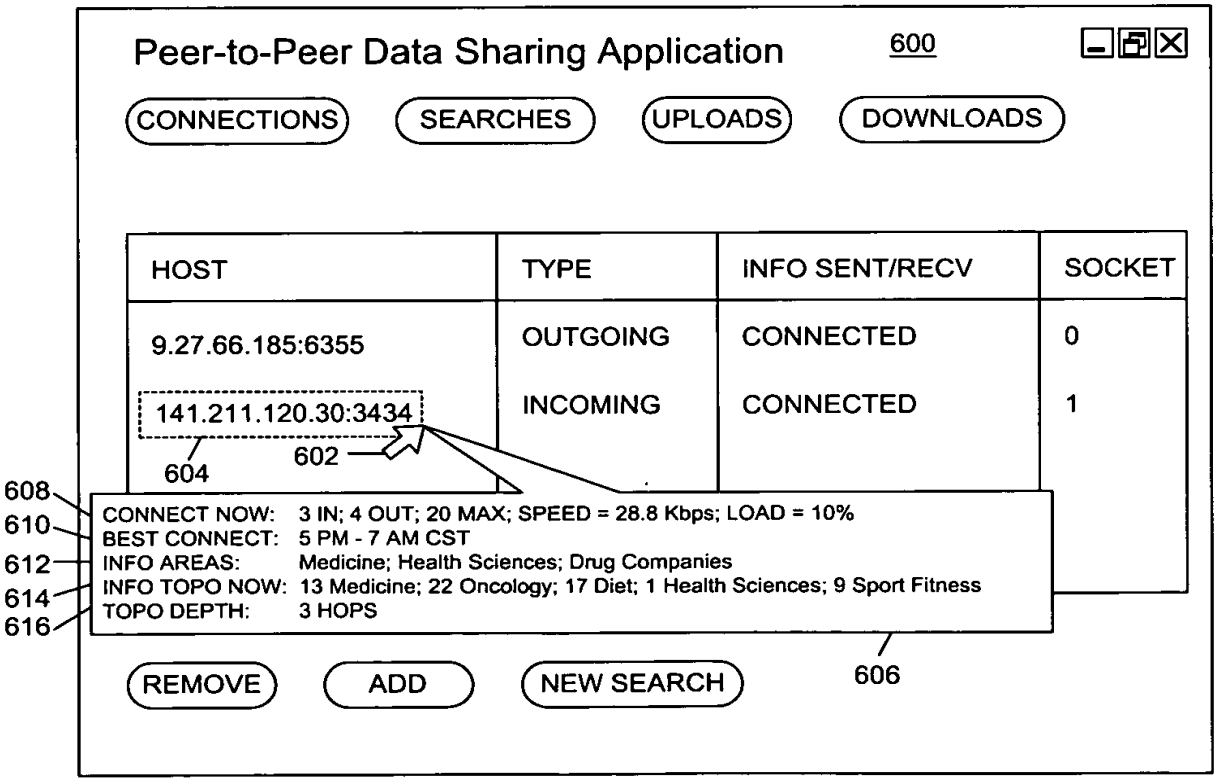
Peer-to-Peer Data Sharing Application
600
CONNECTIONS
SEARCHES
UPLOADS
DOWNLOADS
HOST
TYPE
INFO SENT/RECV
SOCKET
9.27.66.185:6355
OUTGOING
CONNECTED
0
141.211.120.30:3434
INCOMING
CONNECTED
1
604
602
608
610
612
614
616
CONNECT NOW: 3 IN; 4 OUT; 20 MAX; SPEED = 28.8 Kbps; LOAD = 10%
BEST CONNECT: 5 PM - 7 AM CST
INFO AREAS: Medicine; Health Sciences; Drug Companies
INFO TOPO NOW: 13 Medicine; 22 Oncology; 17 Diet; 1 Health Sciences; 9 Sport Fitness
TOPO DEPTH: 3 HOPS
606
REMOVE
ADD
NEW SEARCH

FIG. 6

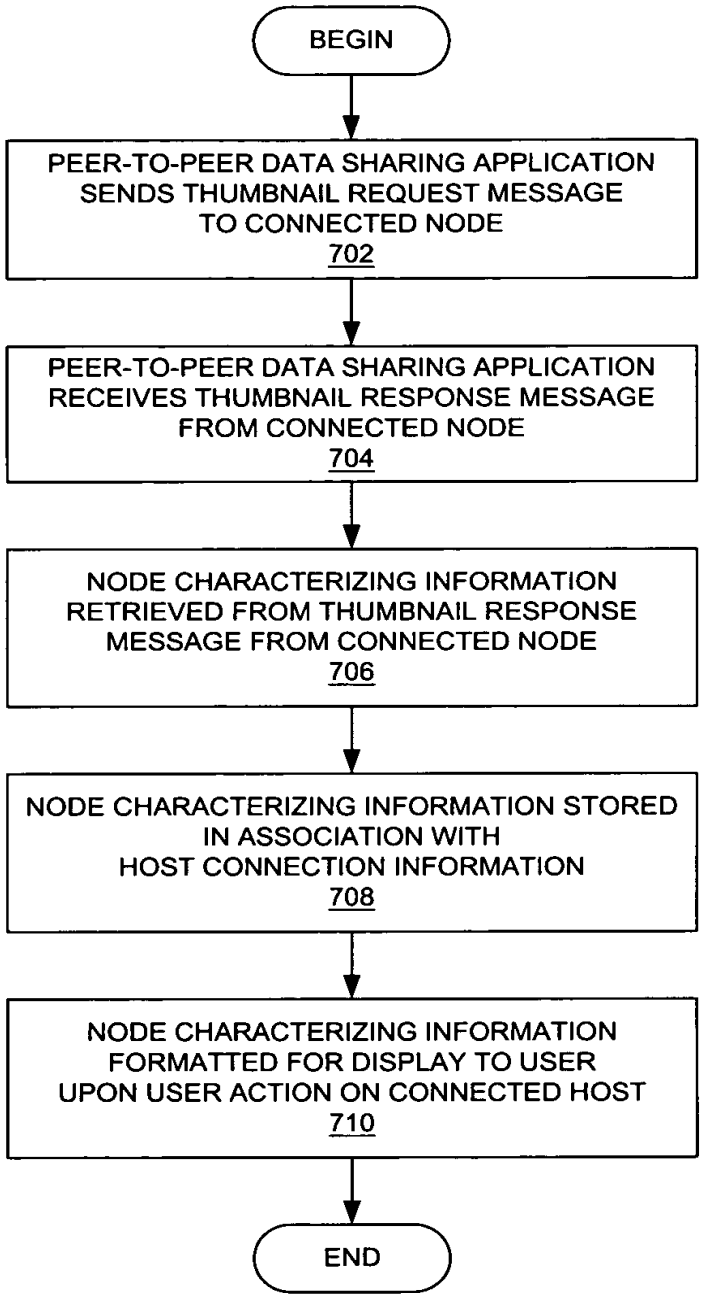
BEGIN
PEER-TO-PEER DATA SHARING APPLICATION SENDS THUMBNAIL REQUEST MESSAGE TO CONNECTED NODE
702
PEER-TO-PEER DATA SHARING APPLICATION RECEIVES THUMBNAIL RESPONSE MESSAGE FROM CONNECTED NODE
704
NODE CHARACTERIZING INFORMATION RETRIEVED FROM THUMBNAIL RESPONSE MESSAGE FROM CONNECTED NODE
706
NODE CHARACTERIZING INFORMATION STORED IN ASSOCIATION WITH HOST CONNECTION INFORMATION
708
NODE CHARACTERIZING INFORMATION FORMATTED FOR DISPLAY TO USER UPON USER ACTION ON CONNECTED HOST
710
END

FIG. 7